BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements of road in low lying area of Bhadrappa layout Maruthi nagara at 9th main and cross road and 10th cross road in ward no. 08 under flood relief fund.**

			Estimate Cost:						4070000
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	Removing B.S Slab of Drain and stacking **Page No. 28 / Item No. 5.32 / PWD SR 2013-14**	sqm							
	a) 9th cross road (Handigud road)-Right side		1	30.00	0.90		27.00		
	b) Bhadrappa layout 1st main road from 6th to 9th crs		1	30.00	0.90		27.00		
	c) Bhadrappa layout 1st main road from 6th to main		1	212.00	1.65		349.80		
							403.80	50.11	**20235.00**
	Basic Rate	46.40							
	Area Weightage @ 8%	3.71							
	Total	**50.11**							
2	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 28 / Item No. 5.33 / PWD SR 2013-14**	Sqm							
	90% of quantity vide item No. 1		Qty Vide Item No. 1				**363.42**	70.04	**25453.00**
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	**70.04**							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete - 7.5 cms thick (P.No.28, I.No.5.31.1 of PW,P&IWTD SR 2013-14.)								
	Balance qty vide item No. 1 & 2	sqm					**40.38**	**343.44**	**13868.00**
	Basic Rate Rs.	318.00							
	Add 8% A.W Rs.	25.44							
	Total Rate Rs.	343.44							
4	KSRRB 300-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 152 / Item No. 19.2 / PWD SR 2013-14**	Cum							
	Desilting of drain								
	a) 9th cross road (Handigud road)-Right side		1	147	0.60	0.70	61.74		
	b) Bhadrappa layout 1st main road from 6th to 9th crs		1	92	0.60	0.70	38.64		
	c) Bhadrappa layout 1st main road from 6th to main		1	212	0.60	0.70	89.04		
	k) 9th main road, 1st cross road		2	117	0.60	0.70	98.28		
	RCC drain				**av.**				
	6th cross road (opp H. No. 285)		1	63.00	1.10	1.50	103.95		
	1st main road, from Handigud corner upto 6th cross road		1	92.00	1.10	1.50	151.80		
	from Handigud jn upto 2nd crs road (9th main)		1	40.00	1.10	1.50	66.00		
	RCC culverts								
	culverts at three locations		3	5.00	1.20	1.50	27.00		
	Concrete road								
	1) 7th cross left side cross road-2		1	15.5	2.75	0.50	21.31		
	2) 7th cross left side cross road-2 continued		1	17.5	5.50	0.50	48.12		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	3) maruthinagara 9th main, left side 1st crs dead end		1	30.0	4.50	0.50	67.50		
	4) 9th main road, 1st cross road		1	117.0	4.70	0.50	274.95		
							1061.54	90.72	**96303.00**
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	**90.72**							
5	KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) **MORTH specification No. 305, No. 159 / Item No. 19.60 / PWD SR 2013-14**	Cum							
	RCC drain								
	6th cross road (opp H. No. 285)		1	63.00	1.10	0.25	17.32		
	1st main road, from Handigud corner upto 6th cross road		1	92.00	1.10	0.25	25.30		
	from Handigud jn upto 2nd crs road (9th main)		1	40.00	1.10	0.25	11.00		
	RCC culverts								
	culverts at three locations		3	5.00	1.20	0.25	4.50		
	Concrete road								
	1) 7th cross left side cross road-2		1	15.50	2.75	0.25	10.65		
	2) 7th cross left side cross road-2 continued		1	17.50	5.50	0.25	24.06		
	3) maruthinagara 9th main, left side 1st crs dead end		1	30.00	4.50	0.25	33.75		
	4) 9th main road, 1st cross road		1	117.00	4.70	0.25	137.47		
							264.05	166.32	**43917.00**
	Basic Rate	154.00							
	Area Weightage @ 8%	12.32							
	Total	**166.32**							
6	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2013-14**	Cum							
	Raising of drain								
	a) 9th cross road (Handigud road)-Right side		1	147	0.6	0.15	13.23		
	RCC drain								
	6th cross road (opp H. No. 285)		1	63.00	1.10	0.15	10.39		
	1st main road, from Handigud corner upto 6th cross road		1	92.00	1.10	0.15	15.18		
	from Handigud jn upto 2nd crs road (9th main)		1	40.00	1.10	0.15	6.60		
	RCC culverts								
	culverts at three locations		3	5.00	1.20	0.15	2.70		
	Concrete road								
	1) 7th cross left side cross road-2		1	15.50	2.75	0.15	6.39		
	2) 7th cross left side cross road-2 continued		1	17.50	5.50	0.15	14.43		
	3) maruthinagara 9th main, left side 1st crs dead end		1	30.00	4.50	0.15	20.25		
	4) 9th main road, 1st cross road		1	117.00	4.70	0.15	82.48		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							171.65	4290.84	**736523.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	4290.84							
7	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	RCC drain								
	6th cross road (opp H. No. 285)		4	63.00		0.60	151.20		
	1st main road, from Handigud corner upto 6th cross road		4	92.00		0.75	276.00		
	from Handigud jn upto 2nd crs road (9th main)		4	40.00		0.60	96.00		
	RCC culvert - side walls								
	culverts at three locations		12	5.00		0.90	54.00		
	RCC culvert - deck slab								
	culvert at six locations - bottom side		3	5.00	1.00		15.00		
	culvert at six locations - alround sides		3	12.00		0.23	8.10		
							600.30	271.08	**162729.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							
8	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 19 / Item No. 4.48.1/ PWD SR 2013-14**	Cum							
	RCC drain								
	bottom portion								
	6th cross road (opp H. No. 285)		1	63.00	0.90	0.15	8.50		
	1st main road, from Handigud corner upto 6th cross road		1	92.00	0.90	0.15	12.42		
	from Handigud jn upto 2nd crs road (9th main)		1	40.00	0.90	0.15	5.40		
	side walls								
	6th cross road (opp H. No. 285)		2	63.00	0.15	0.60	11.34		
	1st main road, from Handigud corner upto 6th cross road		2	92.00	0.15	0.75	20.70		
	from Handigud jn upto 2nd crs road (9th main)		2	40.00	0.15	0.60	7.20		
	RCC culverts								
	bottom								
	culverts at three locations		3	5.00	1.00	0.15	2.25		
	side walls								
	culverts at three locations		6	5.00	0.20	0.90	5.40		
	Deck slab								
	culverts at three locations		3	5.00	1.00	0.23	3.37		
	Concrete road								
	1) 7th cross left side cross road-2		1	15.50	2.75	0.15	6.39		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	2) 7th cross left side cross road-2 continued		1	17.50	5.50	0.15	14.44		
	3) maruthinagara 9th main, left side 1st crs dead end		1	30.00	4.50	0.15	20.25		
	4) 9th main road, 1st cross road		1	117.00	4.70	0.15	82.49		
							200.15	6464.9	**1293921.00**
	Basic Rate	5986.00							
	Area Weightage @ 8%	478.88							
	Total	6464.88							
9	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **190 / Item No. 22.7/ PWD SR 2013-14**	Sqm							
	Concrete road				av.				
	1) 7th cross left side cross road-2		1	15.50	2.75		42.62		
	2) 7th cross left side cross road-2 continued		1	17.50	5.50		96.25		
	3) maruthinagara 9th main, left side 1st crs dead end		1	30.00	4.50		135.00		
	4) 9th main road, 1st cross road		1	117.00	4.70		549.90		
				180.0	4.36		**823.77**	91.80	**75622.00**
	Basic Rate	85.00							
	Area Weightage @ 8%	6.80							
	Total	**91.80**							
10	Providing groove cutting for width of 5mm to 10mm and depth 80mm -100mm including cost of cutting machine , generater &HOM of machinery ,including cost of blade , coolant etc ., including cleaning of groove &providing sand and hot bitumen fillars and filler metal etc., including cost of conveyance of all materials , labour lead and lift charges and all other incident charges as per drawing p no.								
		Rmtr	12	4.36			52.35		
							52.35	118.80	6219.00
	Basic Rate Rs	110.00							
	Area Weightage @ 8%	8.8							
	Total	118.8							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRB 5-14 : Providing and constructing non-load bearing wall with cement concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x10x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P. No. 28 Item No. 5.28 SR 2013-14)	**Sqm**				av			
	a) 9th cross road (Handigud road)-Right side		1	147.00		0.20	29.40		
	c) Bhadrappa layout 1st main road from 6th to main		1	212.00		0.20	42.40		
							71.80	663.12	47612
	Basic Rate	**614.00**							
	Area Weightage @ 8%	**49.12**							
	Total	**663.12**							
12	Providing and laying in position reinforced cement concrete M20 mix with stone aggregates 20mm and downsize for slab (including steel reinforcement) including centering and shuttering, maching mixed, concrete laid in layers not exceeding 15cm thick well compacted cost of all materials, labour, HOM of machineries, curing complete as per specifications. (Approved data rate enclosed)	sqm							
	a) 9th cross road (Handigud road)-Right side		1	147.0	0.90		132.30		
	b) Bhadrappa layout 1st main road from 6th to 9th crs		1	92.0	0.90		82.80		
	c) Bhadrappa layout 1st main road from 6th to main		1	212.0	0.90		190.80		
	k) 9th main road, 1st cross road		2	117.0	0.90		210.60		
							616.50	1245.0	**767543.00**
13	KSRB 4.9.2: Providing **TMT steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.2 PWD SR 2013-14**	Qntl							
	for concrete drain								
1	along the drain, 10mm dia bar	kg	10	62.80	@	0.62	389.36		
1		kg	12	91.80	@	0.62	682.99		
1		kg	10	39.80	@	0.62	246.76		
1	across the drain, 10mm dia bar	kg	419	1.50	@	0.62	389.67		
1		kg	612	1.80	@	0.62	682.99		
1		kg	266	1.50	@	0.62	247.38		
	for culverts								
3	along the culvert, 12mm dia bar	kg	15	4.80	@	0.89	192.24		
3	across the culvert, 12mm dia bar	kg	32	2.20	@	0.89	187.96		
	for deck slab								
3	16mm dia cranked bar	kg	34	1.20	@	1.58	193.39		
3	16mm dia uncranked bar	kg	33	0.90	@	1.58	140.77		
6	10mm dia distribution top and bottom	kg	7	4.90	@	0.62	127.59		
							3481.1		
		Qtl					**34.81**	7450.92	**259367.0**
	Basic Rate	6899.00							
	Area Weightage 8%	551.92							
	Total	7450.92							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum					1061.54		77180.00
			Vide Item No. 1				530.39	72.71	38562.00
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
	Total								**3626492**
11	**KRIDL CHARGES 11%**								**398914**
12	For Third Party QC Charges @ 1% on Estimate Cost								**36265**
13	Miscellaneous and other Charges	L/S							**8329**
								Total	**4070000**

(Rs. Forty Lakhs Seventy Thousand Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

D. K. madhu sudhan
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction for Rs. 40.70 lakhs. Forty lakhs Seventy Thousand only
02/14-15, D:06/9/14
02/14-15 06/9/14
Registered as EE ( ) No
to conditions contained in enclosed memo
No:

ADMINISTRATIVELY SANCTIONED FOR Rs 40.70 lakhs
Rupees Forty lakhs Seventy Thousand only
Under
Registered as EE ( ) No
Subject to conditions contained in enclosed memo EE ( ) No
Dt Estimate A/Sanction
Add Comm(42): AS/1032/14-15
dated 5-9-2014 Rs 40.70 lakhs

Addl Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92